BARSANOV, G.P.; KUMSKOVA, N.M.; CHEPIZHNYY, K.I.

New find of tapiolite. Trudy Min. muz. no.15:189-193 '64.
(MIRA 17:11)

ZDORIK, T.B.; KUPRIYANOVA, I.I.; KUMSKOVA, N.M.

Crystalline orthite from some metasomatic formations in Siberia. Trudy Min. muz. no.15:208-214 '64. (MIRA 17:11)

GALAKTIONOV, V.D., kand.geol.-min.nauk; GORETSKIY, G.I., doktor geol.-min. nauk; DURANTE, V.A., kand.tekhn.nauk; ZUBKOVICH, M.Ye., kand.geol.-min.nauk; KAVEYEV, T.S., kand.geol.-min.nauk; POKROVSKAYA, N.M., kand.geol.-min.nauk; BRASHNINA, A.N., inzh.; YEGOROV, S.N., inzh.; KUMSKOVA, O.G., inzh.; LOVETSKIY, Ye.S., inzh.; MAMENKO, G.K., inzh. MILIKHIKER, Sh.G., inzh.; SINYAKOV, N.P., inzh.; SERGEYEVA, N.A., red.; VORONIN, K.P., tekhn.red.

[Geology of the Volga-Don Canal region] Geologiia raiona sooruzhenii Volgo-Dona. Pod red. V.D.Galaktionova. Moskva, Gos.energ.izd-vo, 1960. 416 p. fold.col.map. (MIRA 13:10)

1. Moscow. Vsesoyuznyy proyektno-izyskatel'skiy i nauchno-issledovatel'skiy institut "Gidroproyekt" imeni S.Ya.Zhuk.
(Volga-Don Canal region--Geology)

ISERLE, J.; KUMSTAT, Z.

Retrobulbar injections of hyaluronidase as a method increasing safety in cataract surgery. Cesk. ofth. 16 no.2:126-130 Mr '60

1. Oeni klinika university v Brne, predmosta prof. MUDr. J. Vanysek.

(CATARACT EXTRACTION)
(HYALURONIDASE, ther.)

ANTON, Milan; KUMSTAT, Zdenek; RIEBEL, Otto

Unexpected blindness as a complication after extirpation of the lacrimal sac. Cesk. ofth. 17 no.3:192-194 My '61.

1. Ocni klinika lekarske fakulty J. Ev. Purkyne v Brne, prednosta prof. MUDr. Jan Vanysek, doktor lek. ved.

(LACRIMAL APPARATUS surg) (BLINDNESS etiol)

RIEBEL, Otto; ANTON, Milan; KUMSTAT, Zdenek

An unusual case of self-mutilation. Cesk. ofth. 17 no.4/5:396-397 Jl '61.

1. Ocni klinika lek. fak. University J. E. Purkyne predn. prof. MUDr. Jan Vanysek, Dr. Sc.

(SELF-MUTILATION)

KUMSTAT, Zdenak; POSPISIL, Leopold; DVORAK, Karel; PROCHAZKA, Bohumir

Mycotic infections in ophthalmology. 1. Clinical, histopathological and serological manifestations in experimental Candida keratomycoses. Cesk. oftal. 18 no.1:17-21 Ja '62.

1. Ocni klinika, predn. prof. MUDr. Jan Vanysek, DrSc., mikrobiol. laborator derm. kliniky, prednosta prof. MUDr. J.Horacek, a II. patologickanatomicky ustav lekarske fakulty University J.Ev.Purkyne v Brne, prednosta prof. MUDr. M. Dluhos.
(MONILIASIS experimental) (CONNEA diseases)

DVORAK, K.; KUMSTAT, Z.

Experimental Candida keratomycosis in rabbits. Histopathological and histochemical study. Cesk. oftal. 19 no.1:55-60 Ja '63.

1. II patologickanatomicky ustav lekarske fakulty UJEvP v Brne, prednosta prof. dr. M. Dluhos Ocni Klinika lekarske fakulty UJEvP v Brne, prednosta prof. dr. J. Vanysek.
(MONILIASIS) (KERATOSIS)

POSPISIL, L.; KUMSTAT, Z.

Actinomycotic canaliculitis. Cesk. oftal. 19 no.2:124-126 Mr '63.

1. Mikrobiologicka laborator dermatovenerologicke kliniky, prednosta prof. dr. J. Horacek, a ocni klinika lekarske fakulty UJEvP v Brne, prednosta prof. J. Vanysek, DrSc.
(LACRIMAL APPARATUS) (ACTINOMYCOSIS)

KUMSTAT, Zd.; POSPISIL, L.

Aspergillosis of the conjunctiva and lacrimal canaliculi. Cesk. oftal. 19 no.2:127-129 Mr '63.

1. Ocni klinika, prednosta prof. dr. J. Vanysek, DrSc. a mikrobiologicka laborator dermatologicke kliniky, prednosta prof. dr. J. Horacek, lekarske fakulty UJEvP v Brne.
(ASPERGILLOSIS) (CONJUNCTIVITIS) (LACRIMAL APPARATUS)

ANTON, M.; KUMSTAT, Z.; REHUREK, J.

Wegener's granulomatosis. Cesk. oftal. 21 no.6:484-490 N '65.

1. Ocni klinika lekarske fakulty University J.E. Purkyne v Brne (prednosta prof. dr. J. Vanysek, DrSc.).

KUMUKOV, SEYFUDIN SALIKHOVICH

KUMUKOV, Seyfudin Salikhovich

[Equipment and machinery for collective farms; a practical manual for commodity experts] Oborudovanie i mashiny dlia kolkhozov; prakticheskoe posobie dlia tovarovedov. Moskva, TSentrosoiuz, 1957. 122 p. (MIRA 11:3)
(Agricultural machinery)

KUMURDZHI, M.I.

N.A. Golovkinskii's works on the hydrogeology of the Crimea.
Zap. LGI 34 no.2:75-79 '58. (MIRA 12:6)
(Crimea--Water, Underground)
(Golovkinskii, Nikolai Alekseevich, 1834-1897)

KUMURDZHI, M.I.

Systematic index of articles published in the "Zapiski" of the Leningrad Mining Institute vols. 1 through 37 (1907--1958). Zap. LGI 40:127-163 '59. (MIRA 14:5)
(Bibliography--Mines and mineral resources)

KUMURDZHI, M.I.

Life and work of Nikolai Fedorovich Pogrebov. Zap. LGI 44 no.2:9-14 '62. (MIRA 16:3)
(Pogrebov, Nikolai Fedorovich, 1860-1960)

KUMURDZHI, M.I.

Forgotten ancient springs in the Crimea. Zap. LGI 44 no.2:15-20 '62. (MIRA 16:3)

(Crimea--Springs)

KUMURDZHI, M.I.

Classed index of article puplished in transactions of the All-Union Surveying Research Institute from collection No.1 to 50, 1934-1963. [Trudy]VNIMI no.50:386-415 '63.
(MIRA 17:10)

43352
S/170/62/005/012/005/008
B104/B186

21.5400

AUTHORS: Broder, D. L., Kumuzov, A. A., Levin, V. V., Frolov, V. V.

TITLE: Using the method of removal cross sections for calculating a shield that contains no hydrogen

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 5, no. 12, 1962, 65 - 70

TEXT: Attenuation of a monoenergetic neutron flux in Al and in mixtures of Al containing equal portions of Pb and Fe was measured; also attenuation in an assembly of Al plates with Fe, Pb, plexiglass or polyethylene blocks placed between source and detector. The neutron sources used were the reactions $D^2(D,n)He$ (E_o = 4 Mev), $T^3(D,n)He^4$ (E_o = 14.91 Mev) and a U^{235} disk exposed to a thermal neutron flux extracted from the reactor of the first atomic power plant in the world. A fission chamber with Th^{232} was used as detector. Results: (1) the removal cross section method can be used to calculate a shield in which light substances are used instead of water; (2) in most cases the removal cross section depends on the moderator only slightly; (3) the removal cross section

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Using the method of removal ...

reaches saturation at relatively small distances from the source; (4) the measurements with a U^{235} fission chamber and those made with a Th^{232} fission chamber are consistent for boron carbide and water. (5) At a sufficiently large distance from the source theirreciprocal of the relaxation length is equivalent to the removal cross section of any given substance. There are 3 figures and 1 table.

SUBMITTED: July 30, 1962

Card 2/2

KUMYKIN, P.; RAU, G.

Trade and navigation agreement between the Union of the Soviet Socialist Republics and the German Democratic Republic. Vnesh. torg. 28 no. 6:45-47 '58. (MIRA 11:8)
(Russia--Foreign economic relations--Germany, East)
(Germany, East--Foreign economic relations--Russia)

KUMYKOV, Tugan Khabasovich, kand. ist. nauk; NEKTOKOV, M.G., red.; BARGI, T.M., tekhn. red.

[Drawing the Northern Caucasus into the all-Russian market in the 19th century; based on materials of Kabardino-Balkaria, Northern Ossetia and Chechen-Ingushia]Vovlechenie Severnogo Kavkaza vo vserossiiskii rynok v XIX v.; po materialam Kabardino-Balkarii Severnoi Osetii i Checheno-Ingushetii. Nal'chik, Kabardino-Balkarskoe knizhnoe izd-vo 1962. 199 p. (MIRA 15:11)

1. Zaveduyushchiy sektorom istorii Kabardino-Balkarskogo nauchno-issledovatel'skogo instituta (for Kumykov).
(Caucasus, Northern--Commerce)

SMIRNOV, G.N.; KUMYSH, A.Z.; VOROB'YEV, V.V.

[Improvement of safety equipment, dust removing ventilation, and waste removal from Ch-460-L combing machines] Usovershenstvovanie sredstv tekhniki bezopasnosti, obespylivaiushchaia ventiliatsiia i udalenie ugarov na chesal'nykh mashinakh Ch-460-L. Ivanovo, 1963. 39 p. (MIRA 17:5)

1. Ivanovo. Vsesoyuznyy nauchno-issledovatel'skiy institut okhrany truda VTsSPS.

29052
S/125/61/000/010/012/014
D040/D112

12300 1573

AUTHOR: Kumysh, I.I.

TITLE: Amendment of technical specifications for AN-26 flux

PERIODICAL: Avtomaticheskaya svarka, no. 10, 1961, 90

TEXT: Electrically melted low-silicon АН-26 (AN-26) flux for welding austenitic chrome-nickel steel is produced in accordance with the ТУ (TU) of 1958 of the Institut elektrosvarki (Electric Welding Institute), and has the following composition: 30-32% SiO_2, 5-6.5% CaO, 16-18% MgO, 2.5-3.5% MnO, 20-22% Al_2O_3, 20-24% CaF_2, 1.5% FeO, 0.07% S and 0.06% P. Each batch of flux has to be chemically analyzed for all the above components. It became obvious at the consumer plants that the carbon content in the AN-26 flux must be regulated as well. It may vary between 0.01 and 0.7%, depending on the conditions of melting. If the melting technology in furnaces with a carbon lining is not adhered to, e.g. if the bottom or lining of the furnace used is partly destroyed, or if the flux is deoxidized by graphite or coke, then the carbon content of the flux increases. Flux with increased

Card 1/2

Amendment of technical...

carbon content carbonizes weld metal; this drastically reduces the latter's resistance to intercrystalline corrosion. In view of this, the Electric Welding Institute has introduced an amendment to the TU of 1958, limiting the maximal permissible carbon content to 0.05%. Flux with a higher carbon content is to be rejected. The carbon content is to be determined by the same means as in metals. [Abstracter's note: essentially complete translation].

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37673
S/125/62/000/004/012/013
D040/D113

A2000

AUTHOR: Kunysh, I.I.

TITLE: ANF-16 flux for machine welding of stainless steels

PERIODICAL: Avtomaticheskaya svarka, no. 4, 1962, 89-90

TEXT: The АНФ-16 (ANF-16) flux was developed in an attempt to improve the transfer of alloy elements from the welding wire into the welds and to improve the weld shape in welding "18-8" steels. The АН-26 (AN-26) flux with 30-32% SiO_2, and the АНФ-5 (ANF-5) flux with 80% CaF_2 and 20% NaF used hitherto produce a slag crust which is difficult to remove from welds containing V, Nb and Ti, and a bad weld shape in welding with heavy current and slow speed. The composition of the ANF-16 is: 55% CaF_2, 30% Al_2O_3, 7% NaF, 7% MgO and 3% SiO_2. It was compared with AN-26, ANF-5, and АНФ-14 (ANF-14) (16% SiO_2, 65% CaF_2, 10% Al_2O_3, 6% MgO, 3% CaO) in welding experiments with two welding wires with different Ti content. Welds produced with the

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S/125/62/000/004/012/013
D040/D113

ANF-16 flux for machine welding ...

ANF-16 flux contained more Ti, had a higher resistance to intercrystalline corrosion after holding at 650°C, and a higher resistance to hot cracking. However, the shape of welds made with ANF-16 flux was not quite as good as that of welds made with ANF-14. It is concluded that the ANF-16 must be tested in welding stainless steels with two-phase and single-phase structure welds, and it is expected that in some cases the ANF-16 will prove better than AN-26, e.g. in welding 1Kh18N9T(1Kh18N9T) steel with EI606 (EI606) wire. The ANF-16 flux was developed under the supersivion of Doctor of Technical Sciences B.I.Medovar. There are 2 figures and 2 tables.

Card 2/2

MEDOVAR, B.I., doktor tekhn.nauk; CHEKOTILO, L.V., inzh.; KUMYSH, I.I., inzh.

Fused carbide fluxes for the welding of austenitically stable steels and alloys. Svar. proizv. no.8:19 Ag '62. (MIRA 15:11)

1. Institut elektrosvarki im. Ye.O.Patona.
(Flux (Metallurgy)) (Steel, Stainless--Welding)

ACCESSION NR: AP4013289 S/0135/64/000/002/0006/0007

AUTHOR: Kumy*sh, I. I. (Engineer); Lutsyuk-Khudin, V. A. (Engineer); Sayenko, V. Ya. (Engineer); Antonets, D. P. (Engineer)

TITLE: Automatic welding of circular seams of pressure vessels of two-layer steel

SOURCE: Svarochnoye proizvodstvo, no. 2, 1964, 6-7

TOPIC TAGS: welding, automatic welding, two-layer steel, two-layer steel welding, circular seam welding, 09G2T + 1Kh18N9T steel, alloy welding

ABSTRACT: The article describes the technology of the mechanized welding of two-ply plate metal with access to the seam from one side. In collaboration with the Institut elektrosvarki im. Ye. O. Patona (Electric welding Institute), the authors produced stamp-welded pressure vessels of two layer steel. Mechanized welding was used on the circular seams of the vessels, 1000 mm in diameter. The two-layer steel 09G2T+1Kh18N9T, 100 mm thick, was produced by the electro-slag welding method developed by the Electric Welding Institute and patented in November of 1959. The finishing of the ends of the circular butt weld of the vessel and the sequence of laying the individual beads are shown in Fig. 1 of the Enclosure. First, the plating layer of the steel was welded. The root seam was welded, with melt-through, on a semi-automatic welding rig, in carbon dioxide gas, using an

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ACCESSION NR: AP4013289

EP156 wire, in the vertical position, and then automatically welded, using an Sv-04KH19N9 wire, 3 mm in diameter, with ANF-14 flux. Welding conditions: I_{weld} = 280-300 a; $v_{electrode}$ = 83 m/hour; U_{arc} = 34-36 v; v_{weld} = 25 m/hour. In order to prevent the appearance of flaws in a weld alloyed with chromium and nickel, foreign practice recommends the use of Armco iron electrodes. With manual arc welding, the use of these electrodes gives a positive effect since, because of the shallow fusion, the transfer of chromium and nickel from the austenitic weld to the transition layer is relatively small. In order to achieve the same results with flux-covered welding, a type A Armco iron wire was used in conjunction with a carbon oxidizing flux (AN348), while, in order to reduce penetration, welding was carried out with a vertical electrode, moving it from the zenith position to 60mm opposite to the direction of rotation of the spherical vessel. In this way the chromium and nickel content in the transitional weld did not exceed 2.5 and 1.6%, respectively. All seams welded with low-carbon electrodes were checked by ultrasonic inspection; the austenitic welds - by gammagraph inspection. "The work was carried out under the direction of Dr. of Tech. Sci. B. I. Medovar." Orig. art. has: 3 tables and 4 figures.

ASSOCIATION: ZHDANOVSKIY ZAVOD TYAZHELOGO MASHINOSTROYENIYA (Zhdanov Heavy

Card 2/3

EWT(d)/EWT(m)/EWP(w)/EWP(v)/T/EWP(t)/ETI(k) IJP(c)

ACC NR: AP6006334 SOURCE CODE: UR/0413/66/000/002/0057/0057

AUTHOR: Paton, B. Ye.; Dudko, D. A.; Medovar, B. I.; Lutsyuk-Khudin, V. A.; Savenko, V. Ya.; Kumysh, I. I.; Andrianov, G. G.; Karpov, V. F.; Dovzhenko, N. F.; Antonets, D. P.; Kuzema, I. D.

ORG: none

TITLE: Method of producing composite rolled stock. Class 21, No. 177985 [announced by Electric Welding Institute im. Ye. O. Paton (Institut Elektrosvarki)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 57

TOPIC TAGS: welding, metal rolling, sandwich rolling

ABSTRACT: An Author Certificate has been issued for a method of producing composite rolled metal by using a billet consisting of ingots or plates welded together by electroslag welding. To save on stainless steel, lower the thickness of the clad layer, and simplify the welding procedure, it is suggested that the process be begun with a heterogeneous plate made from prewelded and prerolled smaller billets having been a carbon steel and clad layer, and then adding additional ingots or plates to produce sandwich rolled stock. [LD]

SUB CODE: 13/ SUBM DATE: 11Apr63 ORIG: none/ OTH REF: none/

Card 1/1 UDC: 621.791.793:621.771.2-419.5

KUMYSH, I. S. FA 65T103

USSR/Radio Stations
Radio Broadcasting May 1948

"The Advanced Radio Center," I. S. Kumysh, Chief, Odessa Radio Center, 2 pp

"Vest Svyazi - Elektro-Svyaz'" No 5 (98)

Briefly describes the history of the Odessa Radio Center which grew from one-room broadcasting station in 1923 to one of the leading radio centers in present-day USSR.

65T103

USSR/Engineering - Diesel installations

Card 1/1 : Pub. 133 - 9/20

Authors : Gol'dfel'd, S. M., and Kumysh, I. S.

Title : Technical servicing of Diesel installations

Periodical : Vest. svyazi 10, page 18, Oct 54

Abstract : The editorial reports on research conducted by a Radio Receiving Center, in coordination with the Odessa Electrotechnical Institute of Communication, concerning the improvement of technical servicing and exploitation of Diesel installations which supply power to radio stations. Drawing.

Institution : ...

Submitted : ...

Sov/133/58-9-12/29

AUTHORS: Snezhko, P. F. and Kumysh, I. S. (Engineers)

TITLE: The Influence of an Oxidising Roasting and Size Distribution of Titanium Concentrates on the Titanium Recovery (Vliyaniye okislitel'nogo obzhiga i sitovogo sostava titanovykh kontsentratov na izvlecheniye titana)

PERIODICAL: Stal', 1958, Nr 9, pp 808-812 (USSR)

ABSTRACT: The process of roasting of titanium concentrates (sulphur, TiO_2 and FeO contents) was investigated in a laboratory and an industrial kiln. It is concluded that under industrial conditions the quality of roasting can be rapidly estimated by the increase in weight. The influence of roasting on the titanium recovery and the consumption of aluminium was tested on pilot (100 kg) and industrial (5600 kg) heats. It is also concluded that: 1) During oxidising roasting of titanium concentrates the proportion of ferrous oxide decreases from 36-37% to 12-14% and the weight of the concentrates simultaneously increases. 2) The oxidation of

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The Influence of an Oxidising Roasting and Size Distribution of Titanium Concentrates on the Titanium Recovery

concentrates increases the recovery of titanium to 76.7% and decreases the consumption of aluminium per ton of 20% ferro-titanium to 407 kg. 3) Optimum results are obtained for concentrates of a size 0.075 - 0.30 mm (the concentrates used on the Lipetsk Works contain 80% of this fraction). There are 5 tables and 6 figures.

ASSOCIATION: Lipetskiy zavod ferrosplavov i TsNIIChM (Lipetsk Ferroalloy Works and TsNIIChM)

16.3100

78186
SOV/133-60-3-11/24

AUTHOR: Kumysh, I. S. (Engineer)

TITLE: Utilization of Perovskite Concentrate for Smelting Ferrotitanium

PERIODICAL: Stal', 1960, Nr 3, pp 230-233 (USSR)

ABSTRACT: The production of perovskite concentrate with 46-49% TiO_2 enables large-scale application of this new raw material, as well as adoption of the technology of smelting standard ferrotitanium as practiced at Lipetsk Plant of Ferroalloys (Lipetskiy zavod ferrosplavov--LZF) after a method developed by the Central Scientific Research Institute of Ferrous Metallurgy (TsNIIChM). The process of producing perovskite concentrate was developed under the supervision of G. I. Kontorovich and the technology of making Ti alloys under the supervision of V. A. Bogolyubov. At Lipetsk Plant the following participated in the experimental work: V. P. Perepelkin of

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the All-Union Scientific Research Institute for Ferrous Metallurgy, G. P. Osipov from the plant, and P. F. Snezhko, I. V. Lugovtsev, D. Z. Khryukin, P. P. Kazakov, et al. The perovskite concentrate contains 80-90% perovskite of the following composition (%):

TiO_2	SiO_2	CaO	Fe_2O_3	Al_2O_3	$(Nb, Ta)_2O_5$
56.0	0.12	37.2	1.60	0.80	0.64

Mn	ΣTR_2O_3	Na_2O	K_2O	Mg	H_2O
0.06	2.20	0.42	0.10	traces	0.32

At Afrikandsk Beneficiation Plant (Afrikandskaya obogatitel'naya fabrika) a ferrotitanium concentrate with about 60% Fe and 8% TiO_2 is produced from perovskite ores by means of magnetic beneficiation.

Utilization of Perovskite Concentrate for Smelting Ferrotitanium

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40% ferrotitanium may be produced from either perovskite concentrate or a mixture with ilmenite at a 3:1 ratio. The smelting of standard ferrotitanium with 50% perovskite concentrate instead of ilmenite does not require special equipment. However, in replacing more than 50% ilmenite concentrates, the charge has to be preheated to 600-700° C, which calls for special equipment. Table 3 shows the composition of a ferrotitanium charge smelted from both ilmenite concentrate only and a partial replacement by pervoskite concentrate with a possible increase of the TiO_2:Fe ratio in the charge. In melting standard ferrotitanium from perovskite concentrate, the following advantages were observed: (1) increase in Ti extraction; (2) decrease in specific Al consumption; (3) production of ferrotitanium with increased Ti content; (4) improved quality of alloy; (5) decreased cost; (6) presence of 0.5-0.9% niobium in ferrotitanium, which might be utilized in steel alloying. The author

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Utilization of Perovskite Concentrate for Smelting Ferrotitanium

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Table 3. Changes in charge composition with increase in amount of perovskite concentrate. (A) Charge components and melting data; (B) amount of perovskite concentrate in Ti-bearing part of the charge (%); (C) composition of charge, (kg); (D) ilmenite concentrate; (E) perovskite concentrate; (F) iron ore; (G) limestone; (H) mean content of TiO_2 in charge concentrates (%); (I) Fe content in charge (%); (J) CaO content in charge (%); (K) Ti content in metal (%); (L) Ti extraction (%).

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Utilization of Perovskite Concentrate for Smelting Ferrotitanium

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Table 3.

A	B		
	0°	25	40
C			
D	5600	4200	3400
E	—	1400	2200
F	40	470	980
G	480		
H			
I	43,80	44,18	45,19
J	24,09	22,73	21,86
K	4,77	5,12	8,02
L	27,10	29,43	29,00
	71,80	77,24	75,83

* Data pertain to ilmenite concentrate only

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Utilization of Perovskite Concentrate for Smelting Ferrotitanium

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SOV/133-60-3-11/24

recommends the installation of a reliable gas exhaust and purification system in both melting units and the area set aside for preparation of the charge. There are 2 figures; and 3 tables.

ASSOCIATION: All-Union Scientific Research Institute of Ferrous Metallurgy (TsNIIChM

Card 6/6

S/133/63/000/002/001/014
A054/A126

AUTHORS: Bogolyubov, V.A., Candidate of Technical Sciences, Akhmedov, B.A., Kumysh, I.B., Laptev, V.K., Musa-Zade, M.M. - Engineers

TITLE: Smelting tungsten steel in open-hearth furnaces by using alumino-thermic scheelite briquettes

PERIODICAL: Stal', no. 2, 1963, 126 - 129

TEXT: According to a recommendation by TsNIIChM the 35 ХГ2 СР (35KhG2SV) steel used for drilling pipes should have a 65 kg/mm^2 flow limit and contain: 0.32 - 0.38% C, 1.4 - 1.8% Mn, 0.4 - 0.7% Si, 0.6 - 0.9% Cr, 0.25 - 0.40 W and maximum 0.04% P and S. To establish the most suitable technology for the tungsten-alloyed low-carbon steel, three methods were tested, the steel being alloyed 1) with conventional ferrotungsten (73% W), 2) with a chrome-tungsten master alloy (23 - 29% W), according to the Kirovskiy zavod (Kirov Plant) method and 3) in accordance with the TsNIIChM recommendation, by omitting the use of ferro-alloys in alloying, and by alloying the metal directly with tungsten-containing minerals. The first method ensured a tungsten utilization of 38.3% (re-

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lated to the liquid metal); the second 36.3 - 59.2%; the third method was found to be the most suitable, therefore a complete technology for the direct alloying method was established. Partly scheelite ($CaO \cdot WO_3$) containing aluminothermic briquettes and partly wolframite were used in the tests. The 5 experimental compositions of scheelite briquettes [produced at the Novolipetskiy metallurgicheskiy zavod (Novolipetsk Metallurgical Plant)] contained between 61.08 and 69.82% WO_3, and were found more adequate for this process than wolframite. The briquettes were partly added to the melt, partly to the ladle. The heat capacity of the scheelite briquettes varied between 507 and 590 cal/kg. The smelting process is simple and until the moment of tapping closely follows the pattern of low-alloy steel smelting; the time required is shorter; if the smelting process is disturbed for any reason, no tungsten is wasted; the briquettes are simply not fed to the ladle and a conventional "20" grade steel will be produced. The steel alloyed with scheelite briquettes can be used for tubes without any trouble, only the tubes have to undergo a special heat treatment in compartment or roller-type furnaces, to ensure the ГОСТ(GOST) 631-57, 635-57, 633-50 requirements. The heat treatment involves normalization at 850 - 950°C for 3 - 8 1/2 minutes, annealing at 630 - 670°C (2 1/2 - 3 1/2 minutes' heating).

Smelting tungsten steel in open-hearth ....

S/133/63/000/002/001/014
A054/A126

The tube steels made with scheelite briquettes and heat treated in this way have a slow limit of 67 - 70 kg/mm^2, a strength limit of 85 - 95 kg/mm^2 and a relative elongation of 10.8 - 13.0%. There is 1 table.

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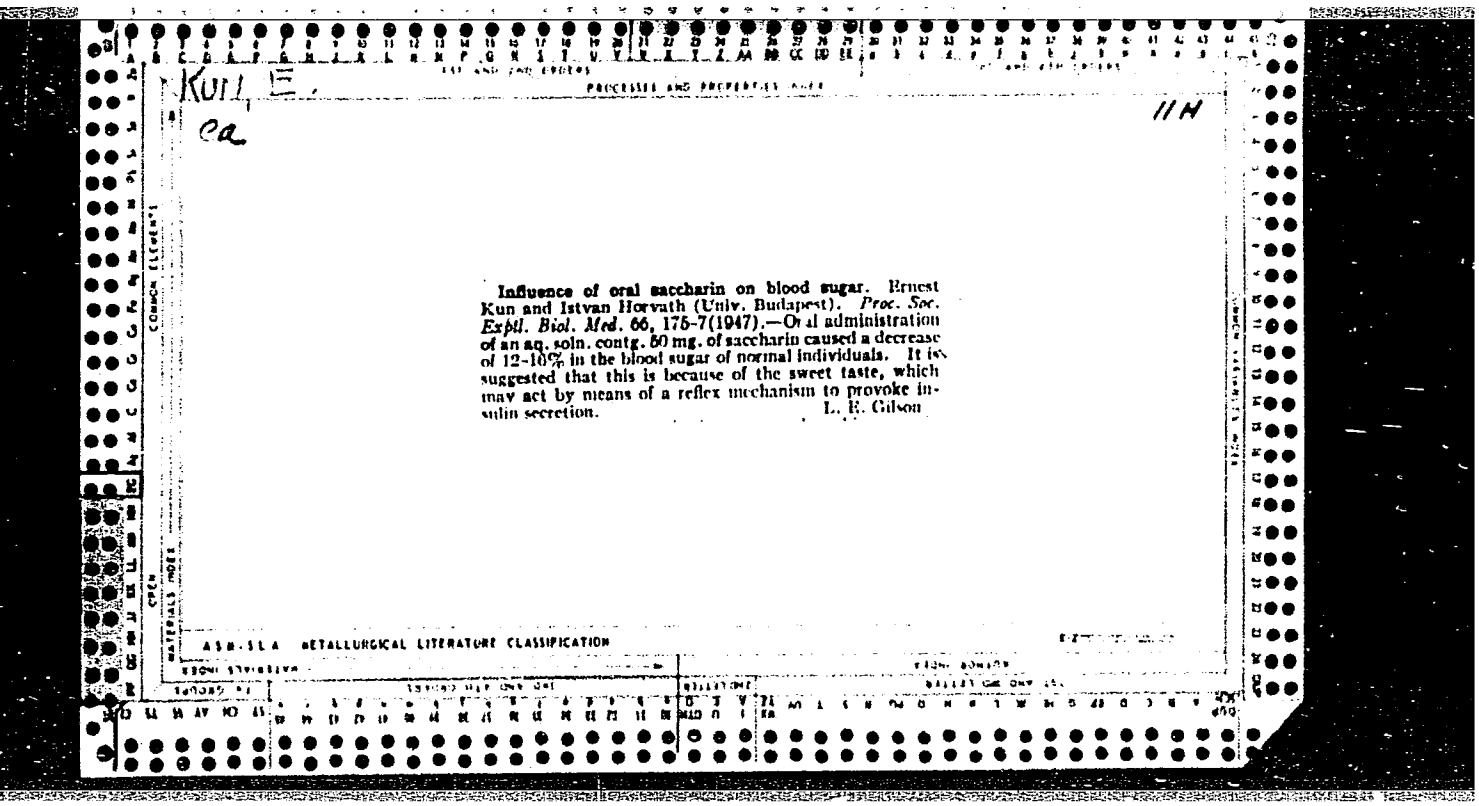

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Inst : -

Title : Investigation of Tinctorial Reactions of the Fibrillar Bone Structure

Orig Pub : Morfol. normala si patol., 1958, 3, No 1, 61-68

Abstract : It has been shown in bone preparations decalcified with strong HNO_3 containing formalin that the principal fibrillar network is stained with aniline blue (Mallory), is demonstrated by the Halle reaction, is not impregnated with silver, and is isotropic. Certain fibrillar lamellae give reactions of the basic type; others are fuchsinophilic, notably argentophilic, and are very weakly demonstrated by the Halle reaction, and are double refractile. The authors

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believe that different characters of the lamellae correspond to different stages of evolution.

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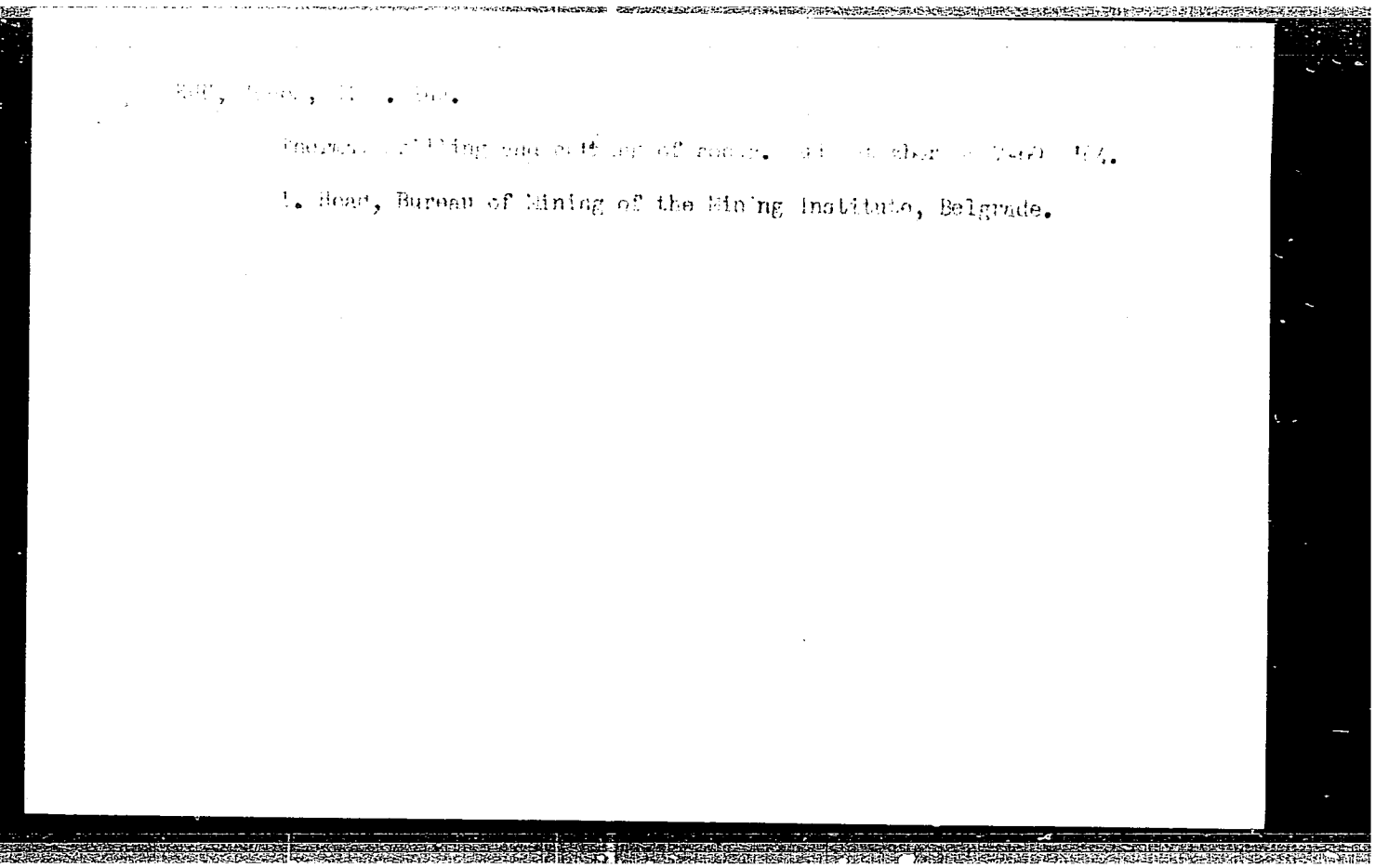

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